

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485971

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-40-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-4LO-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

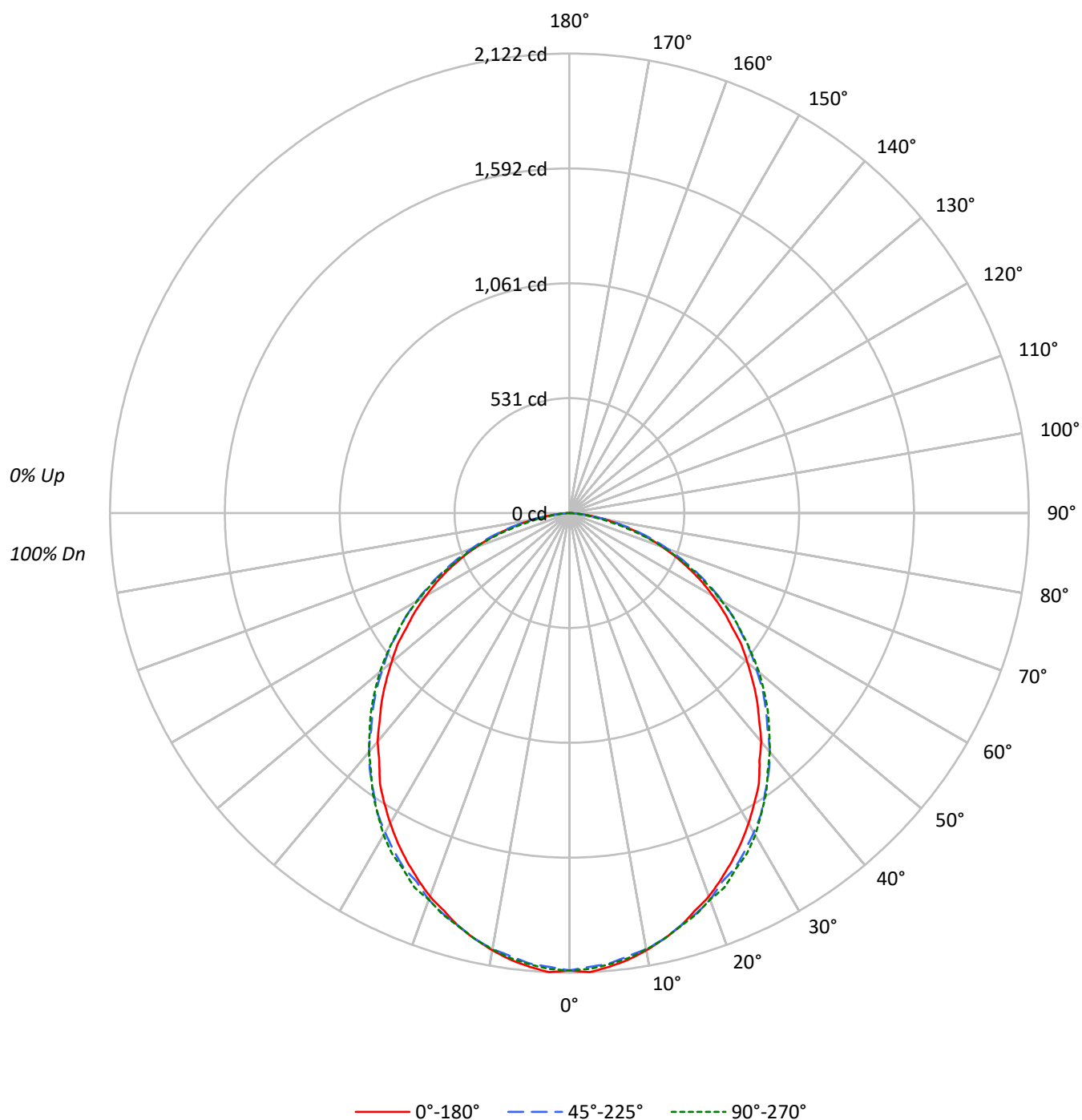
Lumens per Lamp: N/A
Luminaire Lumens: 5424.3 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5683	5683	5683
5°	5683	5642	5652
10°	5603	5584	5591
15°	5507	5500	5504
20°	5396	5442	5439
25°	5269	5372	5389
30°	5141	5292	5335
35°	5014	5178	5200
40°	4843	5062	5058
45°	4666	4886	4934
50°	4490	4723	4785
55°	4301	4556	4583
60°	4120	4393	4362
65°	3904	4124	4043
70°	3597	3788	3615
75°	3182	3314	2894
80°	2559	2594	2022
85°	1677	1606	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.7
10°-20°	558.1	10.3
20°-30°	831.0	15.3
30°-40°	978.1	18.0
40°-50°	980.7	18.1
50°-60°	860.0	15.9
60°-70°	628.8	11.6
70°-80°	324.1	6.0
80°-90°	65.0	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1587.6	29.3
0°-40°	2565.7	47.3
0°-60°	4406.4	81.2
0°-90°	5424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2104	2090	2089	2103	2092	199
15°	1977	1980	1974	1987	1976	556
25°	1775	1783	1809	1835	1815	817
35°	1526	1533	1576	1593	1583	951
45°	1226	1232	1284	1300	1297	945
55°	917	938	971	985	977	823
65°	613	627	648	645	635	606
75°	306	308	319	297	278	324
85°	54	53	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2122.2	2111.8	2097.9	2109.5	2107.2
5°	2103.7	2089.9	2088.7	2102.6	2092.2
7.5°	2080.6	2078.3	2064.5	2079.5	2073.7
10°	2050.6	2048.3	2043.7	2054.1	2046.0
12.5°	2014.8	2012.5	2014.8	2020.6	2014.8
15°	1976.7	1980.2	1974.4	1987.1	1975.6
17.5°	1925.9	1929.4	1940.9	1945.5	1944.4
20°	1884.3	1886.7	1900.5	1919.0	1899.4
22.5°	1830.1	1835.8	1842.8	1876.3	1871.6
25°	1774.7	1782.7	1809.3	1834.7	1815.1
27.5°	1716.9	1725.0	1757.3	1775.8	1773.5
30°	1654.6	1662.7	1703.1	1728.5	1716.9
32.5°	1589.9	1603.8	1647.6	1669.6	1647.6
35°	1526.4	1533.3	1576.1	1593.4	1583.0
37.5°	1442.1	1468.7	1511.4	1522.9	1504.5
40°	1378.6	1379.8	1441.0	1441.0	1439.8
42.5°	1296.6	1315.1	1355.5	1377.5	1365.9
45°	1226.2	1232.0	1283.9	1300.1	1296.6
47.5°	1148.8	1171.9	1210.0	1228.5	1219.3
50°	1072.6	1088.8	1128.1	1152.3	1143.1
52.5°	1002.2	1014.9	1055.3	1069.2	1059.9
55°	916.8	937.6	971.0	984.9	976.8
57.5°	842.9	857.9	899.4	904.1	899.4
60°	765.5	782.8	816.3	819.8	810.5
62.5°	691.6	703.2	733.2	734.3	723.9
65°	613.1	627.0	647.7	645.4	635.0
67.5°	535.7	545.0	564.6	556.5	545.0
70°	457.2	465.3	481.5	469.9	459.5
72.5°	381.0	386.8	400.7	383.3	370.6
75°	306.0	308.3	318.7	296.7	278.3
77.5°	232.1	234.4	240.2	218.2	197.4
80°	165.1	165.1	167.4	144.3	130.5
82.5°	103.9	103.9	102.8	85.4	77.4
85°	54.3	53.1	52.0	41.6	38.1
87.5°	19.6	19.6	16.2	15.0	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)